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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/287,190	04/06/1999	MASAAKI ASANO	DAIN:496	5998

7590 03/14/2002

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EXAMINER

BERCK, KENNETH A

ART UNIT PAPER NUMBER

2879

DATE MAILED: 03/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/287,190

Applicant(s)

ASANO ET AL.

Examiner

Ken A Berck

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

Amendment A filed Dec 14, 2001, has been entered.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 3 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Sasao et al. (US 6,242,860).

Sasao discloses (fig 1) a plasma display panel having a front plate (10) and a back plate (20) parallel to and facing each other having a space there between for a discharge gas, plural pairs of display electrodes (13X and 13Y) for surface discharge on the front plate parallel to each other, with each display electrode pair comprising a sustain electrode (11) and a bus electrode (12), a dielectric layer (14) covering the display electrodes, and a protective film (15) overlying the dielectric layer, address electrodes (A1-A3) on the back plate at right angles to the display electrode pairs, and a dielectric layer (22) covering the address electrodes, and linear ribs (23) located between the address electrodes, with phosphor layers (24R, 24G and 24B) located between the adjacent linear ribs so that they each extend intermittently in the lengthwise direction of the ribs for each pixel, wherein each phosphor layer covers both the surface of the dielectric layer and the surface of the linear ribs within each pixel (Fig 1).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 4-8 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasao et al in view of Ueoka et al.

Sasao discloses all of the above claim limitations as well as a red-emitting phosphor layer, a blue-emitting phosphor layer and a green-emitting phosphor layer adjacent to each other with a rib there between and these three different phosphor layers each extending intermittently in the lengthwise direction of the ribs.

Sasao fails to clearly point out linear shield layers on the front plate parallel to each other located between an adjacent display electrode pair to be parallel to the display electrode pairs and the dielectric layer being dark in color and containing a dark pigment.

Regarding claims 2, 6 and 10, Ueoka discloses linear shield layers (22f) on the front plate parallel to each other located between an adjacent display electrode pair to be parallel to the display electrode pairs to avoid break down of the transparent dielectric layer.

Regarding claim 4-5, 7-8 and 11, Ueoka discloses (column 8, lines 40-44) black inorganic pigment being mixed into the dielectric paste, and the dielectric layer being

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black to prohibit incident light from reflection, and to improve the contrast of an image formed on the display area.

Hence it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the display having the dielectric layer of Sasao with the linear shield layers (22f) on the front plate parallel to each other located between an adjacent display electrode pair to be parallel to the display electrode pairs to avoid break down of the transparent dielectric layer and black inorganic pigment being mixed into the dielectric paste, and the dielectric layer being black to prohibit incident light from reflection, and to improve the contrast of an image formed on the display area, as taught by Ueoka.

### ***Response to Arguments***

Applicant's arguments filed Dec 14, 2001, have been fully considered but they are not persuasive. Applicant argues that Sasao does not show a phosphor layer covering both the surface of the dielectric layer and the surface of the linear ribs within each pixel. Examiner points to figure 1 that shows the phosphor layer covering both the surface of the dielectric layer and the surface of the linear ribs within each pixel. As is disclosed in Applicant's figure 1, the tops of the linear ribs are not within the pixel and are not covered by the phosphor layer.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

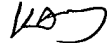
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shinoda et al (US 5,661,500) discloses a PDP with a phosphor layer covering the entire surface within each pixel.

### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ken A Berck whose telephone number is (703)305-7984. The examiner can normally be reached on Mon-Fri 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703)305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7382 for regular communications and (703)308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

kab   
March 6, 2002

  
Vip Patel  
Primary Examiner  
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